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A DNA Vaccine Encoding a Codon-Optimized Human Papillomavirus Type 16 E6 Gene Enhances CTL Response and Anti-tumor Activity. J Biomed Sci. 2006 Apr 29; [Epub ahead of print] PMID: 16649071 [PubMed - as supplied by publisher]

- ☐ 2: [Peng S, Trimble C, Ji H, He L, Tsai YC, Macaes B, Hung CF, Wu TC.](#) [Related Articles, Links](#)

Characterization of HPV-16 E6 DNA vaccines employing intracellular targeting and intercellular spreading strategies. J Biomed Sci. 2005 Oct;12(5):689-700. Epub 2005 Nov 9. PMID: 16200349 [PubMed - indexed for MEDLINE]

- ☐ 3: [Peng S, Ji H, Trimble C, He L, Tsai YC, Yeatermeyer J, Boyd DA, Hung CF, Wu TC.](#) [Related Articles, Links](#)

Development of a DNA vaccine targeting human papillomavirus type 16 oncoprotein E6. J Virol. 2004 Aug;78(16):8468-76. PMID: 15280455 [PubMed - indexed for MEDLINE]

- ☐ 4: [Peng S, Tomson TT, Trimble C, He L, Hung CF, Wu TC.](#) [Related Articles, Links](#)









A combination of DNA vaccines targeting human papillomavirus type 16 E6 and E7 generates potent antitumor effects. Gene Ther. 2006 Feb;13(3):257-65. PMID: 16177818 [PubMed - in process]

- ☐ 5: [Santin AD, Hermonat PL, Ravaggi A, Chiriva-Internati M, Zhan D, Pecorelli S, Parham GP, Cannon MJ.](#) [Related Articles, Links](#)

Induction of human papillomavirus-specific CD4(+) and CD8(+) lymphocytes by E7-pulsed autologous dendritic cells in patients with human papillomavirus type 16- and 18-positive cervical cancer. J Virol. 1999 Jul;73(7):5402-10. PMID: 10364287 [PubMed - indexed for MEDLINE]

- ☐ 6: [Kim JW, Hung CF, Juang J, He L, Kim TW, Armstrong DK, Pai SI, Chen PJ, Lin CT, Boyd DA, Wu TC.](#) [Related Articles, Links](#)

Comparison of HPV DNA vaccines employing intracellular targeting strategies. Gene Ther. 2004 Jun;11(12):1011-8. PMID: 14985791 [PubMed - indexed for MEDLINE]

- ☐ 7: [Trimble C, Lin CT, Hung CF, Pai S, Juang J, He L, Gillison M, Pardoll D, Wu L, Wu TC.](#) Related Articles, Links
 Comparison of the CD8+ T cell responses and antitumor effects generated by DNA vaccine administered through gene gun, biojector, and syringe. Vaccine. 2003 Sep 8;21(25-26):4036-42. PMID: 12922140 [PubMed - indexed for MEDLINE]
- ☐ 8: [Cassetti MC, McElhiney SP, Shahabi V, Pullen JK, Le Poole IC, Eiben GL, Smith LR, Kast WM.](#) Related Articles, Links
 Antitumor efficacy of Venezuelan equine encephalitis virus replicon particles encoding mutated HPV16 E6 and E7 genes. Vaccine. 2004 Jan 2;22(3-4):520-7. PMID: 14670335 [PubMed - indexed for MEDLINE]
- ☐ 9: [Ji H, Wang TL, Chen CH, Pai SI, Hung CF, Lin KY, Kurman RJ, Pardoll DM, Wu TC.](#) Related Articles, Links
 Targeting human papillomavirus type 16 E7 to the endosomal/lysosomal compartment enhances the antitumor immunity of DNA vaccines against murine human papillomavirus type 16 E7-expressing tumors. Hum Gene Ther. 1999 Nov 20;10(17):2727-40. PMID: 10584920 [PubMed - indexed for MEDLINE]
- ☐ 10: [Lasaro MO, Diniz MO, Reyes-Sandoval A, Ertl HC, Ferreira LC.](#) Related Articles, Links
 Anti-tumor DNA vaccines based on the expression of human papillomavirus-16 E6/E7 oncoproteins genetically fused with the glycoprotein D from herpes simplex virus-1. Microbes Infect. 2005 Dec;7(15):1541-50. Epub 2005 Sep 9. PMID: 16213178 [PubMed - indexed for MEDLINE]
- ☐ 11: [Daemen T, Pries F, Bungener L, Kraak M, Regts J, Wilschut J.](#) Related Articles, Links
 Genetic immunization against cervical carcinoma: induction of cytotoxic T lymphocyte activity with a recombinant alphavirus vector expressing human papillomavirus type 16 E6 and E7. Gene Ther. 2000 Nov;7(21):1859-66. PMID: 11110419 [PubMed - indexed for MEDLINE]
- ☐ 12: [Kim TW, Hung CF, Zheng M, Boyd DA, He L, Pai SI, Wu TC.](#) Related Articles, Links
 A DNA vaccine co-expressing antigen and an anti-apoptotic molecule further enhances the antigen-specific CD8+ T-cell immune response. J Biomed Sci. 2004 Jul-Aug;11(4):493-9. PMID: 15153784 [PubMed - indexed for MEDLINE]
- ☐ 13: [Huang CH, Peng S, He L, Tsai YC, Boyd DA, Hansen TH, Wu TC, Hung CF.](#) Related Articles, Links
 Cancer immunotherapy using a DNA vaccine encoding a single-chain trimer of MHC class I linked to an HPV-16 E6 immunodominant CTL epitope. Gene Ther. 2005 Aug;12(15):1180-6. PMID: 15800656 [PubMed - indexed for MEDLINE]
- ☐ 14: [Chen CH, Wang TL, Ji H, Hung CF, Pardoll DM, Cheng WF, Ling M, Wu TC.](#) Related Articles, Links
 Recombinant DNA vaccines protect against tumors that are resistant to recombinant vaccinia vaccines containing the same gene. Gene Ther. 2001 Jan;8(2):128-38.

PMID: 11313782 [PubMed - indexed for MEDLINE]

- ☐ **15:** [Kim TY, Myoung HJ, Kim JH, Moon IS, Kim TG, Ahn WS, Sin JL](#) [Related Articles](#), [Links](#)



Both E7 and CpG-oligodeoxynucleotide are required for protective immunity against challenge with human papillomavirus 16 (E6/E7) immortalized tumor cells: involvement of CD4+ and CD8+ T cells in protection.

Cancer Res. 2002 Dec 15;62(24):7234-40.

PMID: 12499264 [PubMed - indexed for MEDLINE]

- ☐ **16:** [Hauser H, Shen L, Gu QL, Krueger S, Chen SY](#) [Related Articles](#), [Links](#)



Secretory heat-shock protein as a dendritic cell-targeting molecule: a new strategy to enhance the potency of genetic vaccines.

Gene Ther. 2004 Jun;11(11):924-32.

PMID: 15085173 [PubMed - indexed for MEDLINE]

- ☐ **17:** [Cheng WF, Hung CF, Pai SI, Hsu KF, He L, Ling M, Wu TC](#) [Related Articles](#), [Links](#)



Repeated DNA vaccinations elicited qualitatively different cytotoxic T lymphocytes and improved protective antitumor effects.

J Biomed Sci. 2002 Nov-Dec;9(6 Pt 2):675-87.

PMID: 12432234 [PubMed - indexed for MEDLINE]

- ☐ **18:** [Santin AD, Hermonat PL, Ravaggi A, Chiriva-Internati M, Pecorelli S, Parham GP](#) [Related Articles](#), [Links](#)



Radiation-enhanced expression of E6/E7 transforming oncogenes of human papillomavirus-16 in human cervical carcinoma.

Cancer. 1998 Dec 1;83(11):2346-52.

PMID: 9840534 [PubMed - indexed for MEDLINE]

- ☐ **19:** [Davidson EJ, Boswell CM, Sehr P, Pawlita M, Tomlinson AE, McVey RJ, Dobson J, Roberts JS, Hickling J, Kitchener HC, Stern PL](#) [Related Articles](#), [Links](#)



Immunological and clinical responses in women with vulval intraepithelial neoplasia vaccinated with a vaccinia virus encoding human papillomavirus 16/18 oncoproteins.

Cancer Res. 2003 Sep 15;63(18):6032-41.

PMID: 14522932 [PubMed - indexed for MEDLINE]

- ☐ **20:** [Moniz M, Ling M, Hung CF, Wu TC](#) [Related Articles](#), [Links](#)



HPV DNA vaccines.

Front Biosci. 2003 Jan 1;8:d55-68. Review.

PMID: 12456324 [PubMed - indexed for MEDLINE]

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☐ 1. Document ID: US 7041500 B2

L29: Entry 1 of 5

File: USPT

May 9, 2006

US-PAT-NO: 7041500

DOCUMENT-IDENTIFIER: US 7041500 B2

TITLE: Insect cell line

DATE-ISSUED: May 9, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20030228696 A1

December 11, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Robinson; Robin A.

Dickerson

MD

US

US-CL-CURRENT: 435/348; 435/235.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K001C	Draw D
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☐ 2. Document ID: US 7001995 B1

L29: Entry 2 of 5

File: USPT

Feb 21, 2006

US-PAT-NO: 7001995

DOCUMENT-IDENTIFIER: US 7001995 B1

TITLE: Synthetic human papillomavirus genes

DATE-ISSUED: February 21, 2006

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Neeper; Michael P

Collegeville

PA

US

McClements; William L.

Doylestown

PA

US

Jansen; Kathrin U.

Doylestown

PA

US

Schultz; Loren D.

Harleysville

PA

US

Chen; Ling

Blue Bell

PA

US

Wang; Xin-Min

Schwenksville

PA

US

US-CL-CURRENT: 536/23.1; 424/93.21, 435/320.1, 435/69.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 5804604 A

L29: Entry 3 of 5

File: USPT

Sep 8, 1998

US-PAT-NO: 5804604

DOCUMENT-IDENTIFIER: US 5804604 A

**** See image for Certificate of Correction ****

TITLE: Tat-derived transport polypeptides and fusion proteins

DATE-ISSUED: September 8, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Frankel; Alan	Tiburon	CA		
Pabo; Carl	Newton	MA		
Barsoum; James G.	Lexington	MA		
Fawell; Stephen E.	Winchester	MA		
Pepinsky; R. Blake	Arlington	MA		

US-CL-CURRENT: 530/324; 530/300, 530/328, 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 4. Document ID: US 5747641 A

L29: Entry 4 of 5

File: USPT

May 5, 1998

US-PAT-NO: 5747641

DOCUMENT-IDENTIFIER: US 5747641 A

**** See image for Certificate of Correction ****

TITLE: Tat-derived transport polypeptide conjugates

DATE-ISSUED: May 5, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Frankel; Alan	Tiburon	CA	94920	
Pabo; Carl	Newton	MA	02158	
Barsoum; James G.	Lexington	MA	02173	
Fawell; Stephen E.	Winchester	MA	01890	
Pepinsky; R. Blake	Arlington	MA	02174	

US-CL-CURRENT: [530/300](#); [530/324](#), [530/326](#), [530/350](#), [530/402](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 5. Document ID: US 5719054 A

L29: Entry 5 of 5

File: USPT

Feb 17, 1998

US-PAT-NO: 5719054

DOCUMENT-IDENTIFIER: US 5719054 A

TITLE: Recombinant virus vectors encoding human papillomavirus proteins

DATE-ISSUED: February 17, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boursnell; Michael E.	Cambridge			GB3
Inglis; Stephen C.	Cambridge			GB3
Munro; Alan J.	Cambridge			GB3

US-CL-CURRENT: [435/320.1](#); [536/23.72](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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<input type="checkbox"/>	L28	L27 and .5	0
<input type="checkbox"/>	L27	L26 and papillomavirus	200
<input type="checkbox"/>	L26	codon usage	4532
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<i>DB=DWPI; PLUR=YES; OP=ADJ</i>			
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<input type="checkbox"/>	L11	HPV-6.clm.	11
<input type="checkbox"/>	L10	HPV-6	101
<input type="checkbox"/>	L9	HPV-6a	6
<input type="checkbox"/>	L8	Ertl.in. and virus	11
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<input type="checkbox"/>	L6	Ertl.in. and papillomavirus	0

<input type="checkbox"/>	L5	Ertl.in.	104
<input type="checkbox"/>	L4	Ertl Peter.in.	2
<input type="checkbox"/>	L3	Ertl Peter F.in.	0
<i>DB=PGPB; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L2	L1 and HPV	10
<input type="checkbox"/>	L1	codon usage pattern	108

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